

METHOD AND APPARATUS FOR CREATING A MASK-PROGRAMMABLE ARCHITECTURE FROM STANDARD CELLS

ABSTRACT

One embodiment of the invention provides a system for creating a mask-programmable module from standard cells. The system operates by first specifying characteristics of an end design and then selecting a plurality of standard cells from a standard cell library based on the characteristics of the end design. Next, the system combines the plurality of standard cells into a mask-programmable module, wherein instances of the mask-programmable module are repeated to form a mask-programmable fabric. The system also designs a mask-programmable interconnect to match the mask-programmable module, whereby connections within the mask-programmable module and between mask-programmable modules can be generated by programming the mask-programmable interconnect.